

RECEIVED
CENTRAL FAX CENTER
JUL 03 2008EXAMINER'S AMENDMENT TO CLAIMS 1, 4, 15 AND 25
(CLAIM 11 CANCELED)

Claim 1 (currently amended): A device for needle-free injection of a medium into the tissue of a human or an animal, comprising a needle-free pre-injection device comprising a first chamber accommodating a pre-injection medium for production of a high-pressure jet of the pre-injection medium for producing an injection channel by means of a high pressure and a small volume, and a main injection device comprising a second chamber accommodating a medium to be injected, the medium being injected with a great volume and a low pressure in comparison with the volume and pressure of the pre-injection device;

wherein a nozzle intended to be set onto the skin is connected with the chamber of the pre-injection device and with the outlet of the main injection device by way of a kick-back valve, and wherein a pressure-production device that is connected with the chamber of the pre-injection device is configured to produce a high-pressure jet from the nozzle that penetrates the tissue, whereby the chamber of the pre-injection device has a volume sized exclusively for producing an injection channel in the tissue, and the chamber of the main injection device has a volume intended for the medium to be injected; and

wherein a membrane is part of the piston, with which the chamber of the injection medium is connected, wherein a pusher is

located inside the piston, and said membrane is deflected in the direction of the pusher to activate the trigger by way of the pusher.

Claim 4 (currently amended): A device for needle-free production of an injection channel in the tissue of a human or an animal, for introduction of a medium to be injected into the tissue, wherein a pre-injection device is provided ahead of a main injection device that contains the medium to be injected, wherein a chamber of the pre-injection device provided for accommodation of a pre-injection medium has a nozzle intended to be set onto the skin, and the pre-injection device has a pressure-production device for producing a high-pressure jet of the pre-injection medium that exits from the nozzle, and wherein the chamber has a volume sized exclusively for producing the injection channel, and wherein a membrane is part of the piston, with which the chamber of the injection medium is connected, wherein a pusher is located inside the piston, and said membrane is deflected in the direction of the pusher to activate the trigger by way of the pusher.

Claim 11 (canceled).

Claim 15 (currently amended): The device as recited in claim 1, wherein a trigger of the pre-injection device can be indirectly activated by the pressure produced by the main injection device deflecting the membrane in the direction of a the pusher.

Claim 25 (currently amended): A method for needle-free injection of a medium into human or animal tissue comprising the steps of:

(a) providing a device comprising a needle-free pre-injection device comprising a first chamber accommodating a pre-injection medium for production of a high-pressure jet of the pre-injection medium for producing an injection channel with a high pressure and a small volume and a main injection device comprising a second chamber accommodating a medium to be injected, the medium being injected with a great volume and a low pressure in comparison with the volume and pressure of the pre-injection device;

(b) first producing the high-pressure jet of the pre-injection medium via the needle-free pre-injection device;

(c) producing the injection channel with the high-pressure jet; and

(d) subsequently introducing the medium to be injected into the tissue through the injection channel;

wherein a nozzle intended to be set onto the skin is

connected with the chamber of the pre-injection device and with the outlet of the main injection device by way of a kick-back valve, and wherein a pressure-production device that is connected with the chamber of the pre-injection device is configured to produce a high-pressure jet from the nozzle that penetrates the tissue, whereby the chamber of the pre-injection device has a volume sized exclusively for producing an injection channel in the tissue, and the chamber of the main injection device has a volume intended for the medium to be injected; and

wherein a membrane is part of the piston, with which the chamber of the injection medium is connected, wherein a pusher is located inside the piston, and said membrane is deflected in the direction of the pusher to activate the trigger by way of the pusher.